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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/618,303	07/03/2003	Olaf Skibba	1143-II-22.268	3851	
7590 10/04/2005			EXAMINER		
ROBERT W. BECKER & ASSOCIATES			SOOHOO, TONY GLEN		
Suite B 707 Highway 6	6 East		ART UNIT	PAPER NUMBER	
Tijeras, NM 87059			1723		
			DATE MAILED: 10/04/200	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Applica	tion No.	Applicant(s)		7			
000 - 100 - 100	10/618,	303	SKIBBA, OLAF					
Office Action Summary	Examine	er	Art Unit					
	Tony G.		1723					
The MAILING DATE of this commun Period for Reply	ication appears on t	ne cover sheet with the	correspondence ad	ddress				
A SHORTENED STATUTORY PERIOD F THE MAILING DATE OF THIS COMMUN! - Extensions of time may be available under the provisions after SIX (6) MONTHS from the mailing date of this comm - If the period for reply specified above is less than thirty (3 - If NO period for reply is specified above, the maximum st: - Failure to reply within the set or extended period for reply Any reply received by the Office later than three months a earned patent term adjustment. See 37 CFR 1.704(b).	ICATION. of 37 CFR 1.136(a). In no enunication. It is days, a reply within the statutory period will apply and will, by statute, cause the apply in the statute.	event, however, may a reply be ti atutory minimum of thirty (30) da will expire SIX (6) MONTHS from oplication to become ABANDONE	mely filed ys will be considered time n the mailing date of this of	ely. communication.				
Status								
1) Responsive to communication(s) file	ed on <i>21 July 2005</i>							
· _	· · · · · · · · · · · · · · · · · · ·							
3)☐ Since this application is in condition	<i>'</i> —		osecution as to th	e merits is				
closed in accordance with the practi	·	· ·						
Disposition of Claims								
4)⊠ Claim(s) <u>11-30</u> is/are pending in the	annlication							
4a) Of the above claim(s) is/a	• •	onsideration						
5) Claim(s) is/are allowed.								
6)⊠ Claim(s) <u>11-30</u> is/are rejected.								
7) Claim(s) is/are objected to.								
8) Claim(s) are subject to restric	ction and/or election	requirement.						
Application Papers								
9)☐ The specification is objected to by the	e Examiner							
10)⊠ The drawing(s) filed on <u>22 March</u> 200		epted or b) objected	to by the Examine	r.				
Applicant may not request that any object		· · · ·	•					
Replacement drawing sheet(s) including	the correction is requ	ired if the drawing(s) is ob	ojected to. See 37 C	FR 1.121(d).				
11)☐ The oath or declaration is objected to	by the Examiner. N	lote the attached Office	e Action or form P	TO-152.				
Priority under 35 U.S.C. § 119								
12)⊠ Acknowledgment is made of a claim	for foreign priority u	nder 35 U.S.C. § 119(a)-(d) or (f).					
a)⊠ All b)□ Some * c)□ None of:								
1. ☐ Certified copies of the priority	documents have be	en received.						
2. Certified copies of the priority documents have been received in Application No								
3. Copies of the certified copies of the priority documents have been received in this National Stage								
application from the Internatio	· · · · · · · · · · · · · · · · · · ·							
* See the attached detailed Office actio	n for a list of the cer	unea copies not receiv	ea.					
Attachment(s)								
1) Notice of References Cited (PTO-892)		4) Interview Summary						
 2) Notice of Draftsperson's Patent Drawing Review (P 3) Information Disclosure Statement(s) (PTO-1449 or Paper No(s)/Mail Date 		Paper No(s)/Mail D 5) Notice of Informal F 6) Other:		O-152)				
.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)	Office Action Summ		art of Paper No./Mail D	Date 20050930	૯૪			

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Drawings

2. The drawings were received on 3/22/2004. These drawings are accepted by the examiner.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 11-30 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 11 recited that the a width of the 1st ribs of the extruder is increased approximately to a width of the 2nd ribs of the extruder screw.

The claim is vague and imprecise of what feature of respective ribs is to deemed the "width". The claim never positively points out where is the width to be measured in the respective ribs. Thus it is unclear in what positive element is being measured and compared to between the 1st and 2nd ribs. Additionally, the claim recited that the width "is increased", but never positively points out what the initial width value such that it may be increased to the recited value in the claim. Thus the claim appears to be incomplete

and fails to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 11-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamaoka 4408887.

The Yamaoka '877 reference discloses a screw sleeve 16 with flow channels 39, 39, 39, figure 4 with 1st ribs 29 with a ridge face, and a screw extruder section with 2nd ribs 32, 32, figure 3, and flow channels between the 2nd ribs and having a ridge face.

The Yamaoka '877 reference discloses all of the recited subject matter as defined within the scope of the claims with the exception of having the geometry of the ridge faces of the sleeve corresponding to at least 1/3rd of the flow channel, and the gap formed corresponding to 0.5% of the diameter of the screw and wherein a width of the 1st ribs is increased approximately to a width of the 2nd ribs (claim 1); or at least 1mm as the gap (claim 26).

Absent unexpected result to the geometry gap, and rib widths, ridge sizes of the Yamaoka '877 device, and since such a modification would have involved a mere

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change in the size of a component. (A change in size is generally recognized as being within the level of ordinary skill in the art. In re Rose, 105 USPQ 237 (CCPA 1955).), it is deemed that it would have been obvious to one of ordinary skill in the art to modify the size of the respective rib widths, the size of ridge face, or the width of the gap to a more appropriate size or relative size, since such relative surfaces and gap sizes are an effective variable in producing and optimizing the shear effects produced between the flow of material between the two surfaces of the gap, or between the ribs or the ridge faces and that of the channels and/or channel ribs. It is also it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. In re Boesch, 617 F.2d 272, 205 USPQ 215 (CCPA 1980).

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Response to Arguments

7. Applicant's arguments filed 7-21-2005 have been fully considered but they are not persuasive. Applicant argues that the Yamaoka reference does not show in combination with the limitation of a width of the 1st ribs of the extruder sleeve is increased approximately to a width of the 2nd ribs of the extruder screw, see REMARKS/Arguments in paragraphs 4-7 on page 6, and the reference does not show or teach an adaptation of the ribs.

In response to applicant's argument that there is no suggestion to modify the reference, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the

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references themselves or in the knowledge generally available to one of ordinary skill in the art. See In re Fine, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988)and In re Jones, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, the in the art of screw extruders the sizes of the gap, channel, and rib surface widths are known effective variables in providing a flow gap which induces shear effect working upon the plasticized material. As discussed above, a change in size is generally recognized as being within the level of ordinary skill in the art. In re Rose, 105 USPQ 237 (CCPA 1955).). It is also it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. In re Boesch, 617 F.2d 272, 205 USPQ 215 (CCPA 1980) Accordingly, with the common knowledge generally available to one of ordinary skill in the art, it is deemed that it would have been obvious to one of ordinary skill in the art to modify the size of the respective rib widths, the size of ridge face, or the width of the gap to a more appropriate size or relative size, since such relative surfaces and gap sizes are an effective variable in producing and optimizing the shear effects produced between the flow of material between the two surfaces of the gap, or between the ribs or the ridge faces and that of the channels and/or channel ribs).

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Conclusion

8. The prior art previously made of record and not relied upon is considered pertinent to applicant's disclosure. Geyer 5348388 and 5641227, Csongor 4749279, and 4447156, Yamaoka 5370456, and Wenger 5694833.

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9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tony G. Soohoo whose telephone number is (571) 272 1147. The examiner can normally be reached on 7-5PM, Tue-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wanda Walker can be reached on 571-272-1151. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Tony & Soohoo Primary Examiner

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